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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: Wed May 16 10:12:18 EDT 2007

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Application No: 10588095 Version No: 1.0

Input Set:

Output Set:

Started: 2007-05-15 16:39:51.705
Finished: 2007-05-15 16:39:52.943
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 238 ms
Total Warnings: 22
Total Errors: 0
No. of SeqIDs Defined: 24
Actual SeqID Count: 24

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
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W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)

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Error code	Error Description
	This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> SUNG, SOON-KEE
LEE, YOUNG-PYO
YU, GYUNG-HEE
CHOI, YEON-OK

<120> The usage of MADS-box genes in fruit & seed development by regulating active gibberelin synthesis

<130> 428.1074

<140> 10588095

<141> 2007-05-15

<150> US/10/588,095

<151> 2006-07-28

<150> PCT/KR05/00282

<151> 2005-01-31

<150> KR10-2004-10432

<151> 2004-02-17

<150> KR10-2004-6551

<151> 2004-02-02

<160> 24

<170> KopatentIn 1.71

<210> 1

<211> 1065

<212> DNA

<213> Malus domestica

<220>

<221> gene

<222> (1)..(1065)

<223> Malus domestica mRNA for C-type MADS-box protein (MdMADS14)

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acccacttcc cacttctgca attcttcctt ccgggttgcca agtgcaaccc caaaagaaaa 60

actcaaagtcc aagaactaac agaaaagagcc acaattcatac tattttgagg ggtttttgcc 120

attttcatc ctgttaacaa tggagttcgc aaatcaagca cctgagagct ctacccaaaa 180

aaaattggaa agaggcaaaa ttgagattaa gcggatcgaa aacactacca atcgacaagt 240

cacttctgc aaacgccgca acggattgct taagaaagcc tatgaattgt ctgttcttg 300

tgatgctgaa gttgctctta tcgtcttc caccctggc cgcctctatg agtatgctaa 360

caacagcggtt agagcaacaa tcgacaggta caaaaaagca tgcgctgatt ctacggacgg 420

tggatctgtta tcagaagcta acactcagtt ttatcagcag gaagcatcaa aactgcgaaag 480
acagatccga gaaattcaga attcaaacag gcataatactg gggaaatccc ttagcacctt 540
gaaagtcaag gaactgaaaa acctagaagg aagattggag aaaggaatca gcagaataag 600
atccaaaaag aatgaaatcc tgtttctga aatcgaattc atgcaaaaaga gggagactga 660
gctgcaacac cacaacaatt ttctgagagc aaagatagct gaaagcgaga gggAACAGCA 720
gcagcagcaa acacatatga ttccggaaac ttctacgat ccgtcgatgc ctgcgaattc 780
gtatgacagg aacttttcc ctgtgatct ggagtccaat aataaccatt accctcgcca 840
aggccagaca gctctccaaac ttgttgaaa tgctggactg ccgtctgatg ttcttctatc 900
catatcctct gatctgtctt cataatcta tgagataatt gacgttgtag ttttatgtta 960
tatgggagaa ccagtttgct catgttctcc ataatatata tatgtgtgat gatggacccc 1020
aattctgtga taacatatat agtaaatttt attttctcac cccga 1065

<210> 2
<211> 876
<212> DNA
<213> Malus domestica

<220>
<221> gene
<222> (1)..(876)
<223> Malus x domestica AGAMOUS-like protein mRNA, complete
cds (MdMADS16)

<400> 2
gcaattcttc cttccgttg ccaagtgc aa cccaaataga aaaactcaa gtcaagaact 60
agctaacaga gaaaaccaca attcatcaat ttggaggggt tttgccatt tttcatcatt 120
gcaacaatgg agttccaaa tcaagcaccc gagagctct cccagaaaaa attggaaagg 180
ggcaaaaattg agattaagcg gatcgaaaac actacaaatc gacaagttac cttctgcaaa 240
cgccgcaacg gattgcttaa gaaagcctat gaattgtctg ttcttgtga tgctgaagtt 300
gctcttatcg tgttctcaa ccgtggccgc ctctatgagt atgctaacaa cagtgtttaga 360
gcaacaatcg acaggtacaa aaaagcatac gctgatccta cgaacagtgg atctgttca 420
gaagccaaaca ctcagttta tcagcaggaa gcatccaaac tgcaagaca gatccgagaa 480
attcagaatt caaacaggca tatactgggt gaagctctta gctccttgaa cgccaaaggaa 540
ctgaagaacc tagaaggaag attggagaaa ggaatcagca gaataagatc caaaaagaat 600

gaaatgctgt tttctgaaat cgaattcatg caaaaaaggg agaccgagct gcaacaccac 660
aacaattttc tgagagcaa gatacgctgaa aacgagaggg aagagcagca gcatacacac 720
atgatgccgg gaacttccta cgatcagtca atgccttcgc attcttatga caggaacttc 780
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ctccaaacttg tttgaaatgc tggactgccg tctgat 876

<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> first forward degenerate primer

<220>
<221> misc_feature
<222> (1)..(20)
<223> 6th, 12th, 15th nucleotide 'n' represent inosine

<400> 3
aaycgncarg tnacnttytg 20

<210> 4
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> first reverse degenerate primer

<220>
<221> misc_feature
<222> (1)..(19)
<223> 3th, 12th, 15th and 18th nucleotide 'n' represent inosine

<400> 4
tcngcgtatyt tnshnckna 19

<210> 5
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> second forward degenerate primer

<220>
<221> misc_feature
<222> (1)..(20)
<223> 9th and 18th nucleotide 'n' represent inosine

<400> 5
aaraargcnt aygarytncc 20

<210> 6
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> third forward primer

<400> 6
tctagaacta gtggatcccc cgggctgcag gaattc 36

<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> third reverse primer

<400> 7
atccactgtt cgttaggatca gcgtatg 27

<210> 8
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> forth forward primer

<400> 8
ggctgcagga attcggcact aggcaatt 28

<210> 9
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> forth reverse primer

<400> 9
gcaagcttat cagacggcag tccagc 26

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS14 forward primer

<400> 10
gggaacagca gcagcagcaa a 21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS14 reverse primer

<400> 11
ctccaagatc acaggaaaga a 21

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS16 forward primer

<400> 12
tgaaaacgag aggaaagac a 21

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS16 reverse primer

<400> 13
caagatcacc gctgggagga a 21

<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> ACTIN forward primer

<400> 14
cgatggccaa gtcatacaca t 21

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> ACTIN reverse primer

<400> 15
tctcatgaat gccagcagct t 21

<210> 16
<211> 249
<212> DNA
<213> Artificial Sequence

<220>
<223> hybridization probe

<400> 16
atgcaaaaaaaa gggagaccga gctgcaacac cacaacaatt ttctgagagc aaagata gct 60
gaaaacgaga gggaaagagca gcagcataca cacatgatgc cgggaacttc ctacgatc ag 120
tcaatgcctt cgcattctta tgacaggaac ttccctcccag cggtgatctt ggagtccaa ac 180
aataaccatt accctcacca agtccagaca gctctccaac ttgtttgaaa tgctggactg 240
ccgtctgat 249

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> npt II forward primer

<400> 17
gaggcttattc ggctatgact g 21

<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> npt II reverse primer

<400> 18
atcgggagcg gcgataccgt a 21

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS forward primer

<400> 19
gaattcaaac aggcatatac tggg 24

<210> 20
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS reverse primer

<400> 20
gacggatcgt aggaagttcc c 21

<210> 21
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RIN forward primer

<400> 21
tggtacacctt gaaggaaccc a 21

<210> 22

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> RIN reverse primer

<400> 22
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20

<210> 23
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Le20ox-1 forward primer

<400> 23
cccaacaaggc atctgagc

18

<210> 24
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Le20ox-1 reverse primer

<400> 24
ttcctaaggc gagctccg

18